

SYSTEM AND METHOD FOR USING A CORRESPONDENCE TABLE TO
COMPRESS A PRONUNCIATION GUIDE

ABSTRACT OF THE DISCLOSURE

5 Parsing routines extract from a conventional pronunciation
dictionary an entry, which includes a dictionary word and dictionary
phonemes representing the pronunciation of the dictionary word. A
correspondence table is used to compress the pronunciation
dictionary. The correspondence table includes correspondence sets
10 for a particular language, each set having a correspondence text
entry, a correspondence phoneme entry representing the
pronunciation of the correspondence text entry and a unique
correspondence set identifying symbol. A matching system
compares a dictionary entry with the correspondence sets, and
15 replaces the dictionary entry with the symbols representing the best
matches. In the absence of a match, symbols representing silent text
or unmatched phonemes can be used. The correspondence symbols
representing the best matches provide compressed pronunciation
dictionary entries. The matching system also generates decoder code
20 sets for subsequently translating the symbol sets. A decoder system
uses the decoder code sets for translating symbol sets in the
compressed pronunciation dictionary to generate phonemes
corresponding to selected text.